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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,359	08/06/2003	William Grant	IR-2553 DIV	8877
7:	590 10/19/2004	EXAMINER		
OSTROLENI	K, FABER, GERB &	NGO, NGAN V		
1180 Avenue o	f the Americas			
New York, NY	10036-8403	ART UNIT	PAPER NUMBER	
ŕ			2814	

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/635,359	GRANT, WILLIAM				
		Examiner	Art Unit				
		Ngan Ngo	2814				
	The MAILING DATE of this communication		1				
Period fo	or Reply		·				
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by eply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of th period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).				
Status							
1)[Responsive to communication(s) filed on	26 August 2004.					
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-20 is/are pending in the applic	ation.					
	4a) Of the above claim(s) is/are with	hdrawn from consideration.					
5)🖂	Claim(s) 14-20 is/are allowed.						
6)⊠	Claim(s) <u>1-13</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction a	and/or election requirement.					
Applicati	on Papers						
9)□	The specification is objected to by the Exa	aminer.					
· _	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the c	correction is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).				
11) 🔲	The oath or declaration is objected to by t	he Examiner. Note the attache	ed Office Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	8 119(a)-(d) or (f)				
•	☐ All b)☐ Some * c)☐ None of:	roigh phoney under do o.o.o.	3 110(4) (4) 51 (1).				
۵٫۰	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International B	ureau (PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list of the certified copies not received.							
	W-N						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-94	8) Paper No	Summary (P10-413) o(s)/Mail Date				
3) 🛛 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>0804</u> .		Informal Patent Application (PTO-152)				

Application/Control Number: 10/635,359

Art Unit: 2814

The Information Disclosure Statement filed August 26, 2004 has been entered and made of record as paper no. 0804.

Original claim 10 depends from original claim 11. Correction is requested.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kagawa (US-5,371,405, cited by Applicant).

Kagawa discloses a power module comprising at least one power device (6), a housing element (13), a lead frame (3) including a conductive pad having large area to receive the power device, a heat sink (1), and a thermally conductive but electrically insulating material (2) interposed between and indirect contact with a second open surface of the conductive pad and heat sink. Note figure 1(b) of Kagawa.

In re claim 2, the house element 13 includes a molded rim surrounding the conductive pad.

In re claim 3, figure 2 show a plurality of conductive pads.

In re claim 4, the semiconductor devices are connected together as shown in figures 2-5.

In re claim 5, Kagawa shows power bus and common conductive pads in figures 2-5. Note elements 2-4, 9, and 11

In re claim 6, the conductive pads in Kagawa are isolated from each other as shown in figure 1(b).

In re claim 8, figure 1(b) clearly show the wire bond.

In re claims 11 and 12, the circuit board is formed inside of the housing as shown in figure 1(a).

In re claim 13, the conductive bars (10 and 12) are formed on opposite side of the housing element.

Claims 14-20 stand allowed.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examinor

Ngan Ngo

October 8, 2004